



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	CF6-80C2B2F	BYPASS RATIO:	5.1
UNIQUE ID NUMBER:	2GE046	PRESSURE RATIO (π_{00}):	27.6
COMBUSTOR:	1862M39		
ENGINE TYPE:	TF	RATED THRUST (F_{00}) (kN):	231.4

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	3.2	33.0	43.7	6.7
AS % OF ORIGINAL LIMIT	16.5	28.0	45.9	35.5
AS % OF CAEP/2 LIMIT (NO _x)			57.4	
AS % OF CAEP/4 LIMIT (NO _x)			69.2	
AS % OF CAEP/6 LIMIT (NO _x)			78.6	
AS % OF CAEP/8 LIMIT (NO _x)			93.5	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.148	0.05	0.04	21.55	5.7
CLIMB OUT	85	2.2	1.777	0.05	0.06	18.09	3.1
APPROACH	30	4.0	0.593	0.12	2.64	11.80	0.0
IDLE	7	26.0	0.188	1.86	21.56	4.52	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			760	579	6717	9192	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				4	4	4	4
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				2.5	29.0	39.7	5.7
SIGMA (D _p /F ₀₀ in g/kN, or SN)				0.3	1.3	0.2	0.6
RANGE (D _p /F ₀₀ in g/kN, or SN)				2.3-2.89	27.9-30.7	39.5-40.1	5-6.4

ACCESSORY LOADS

POWER EXTRACTION	0	(kW)	AT	-	POWER SETTINGS
STAGE BLEED	0	(% CORE FLOW)	AT	-	POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.00457-0.00743

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: CF6 Eval Engineering
 TEST LOCATION: Site IIIB, PTO Peebles
 TEST DATES: 13/01/1995-17/01/1995

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

REMARKS

1. Ref GE report TM95-17.
2. Engine S/N 704/233 & 704/234
3. 1862M39 combustor
4. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
5. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 e)

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)